

# DART SERVICE INSTRUCTION

## TO AMEND INSTALLATION INSTRUCTIONS D205-523 REV. F, AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D205-523 REV. 1 OR LATER APPROVED REVISIONS

REF. TCCA STC: SH96-90      REF. ITALY STC: CS-099  
REF. FAA STC: SR00511NY      REF. BRAZIL STC: 2010S10-07  
REF. FAA STC: SR00512NY      REF. CHINA VSTC: VSTC0683  
REF. FAA STC: SR00513NY      REF. JAPAN STC: STC-134-HQT

### 1.0 PURPOSE

The Weight and Balance of Installation Instructions D205-523 Rev. F and Instructions for Continued Airworthiness ICA-D205-523 Rev. 1 is amended per Section 3 of this Dart Service Instruction (DSI).

Installation of the D2224 Rappel Anchor per Figure 4 of D205-523 Rev. F may not be compatible with some components on later S/N aircraft. This DSI provides an alternate position for the installation of the D2224 Rappel Anchor.

Optional instructions for the removal and reinstallation of the D205-523-043 Slide Bar Assembly are provided for flight operations that do not require use of the rappel.

### 2.0 PROCEDURE

#### 2.1 Alternate location of the D2224 Anchor Assembly

2.1.1 It is acceptable to install the D2224 Anchor Assembly between STA 97.45 and STA 126.2. as shown in Figure 1 of this DSI instead of the location shown in Figure 4 of D205-523 Rev. F. Keep the innermost attachment hole 2.50" from LBL/RBL 15.25 as outlined in Figure 1 of this DSI. The D2224 Anchor Assembly, D2229 Doublers, and associated hardware are otherwise installed i.a.w. Section 3 of Installation Instructions D205-523.

#### 2.2 Removal of the D205-523-043 Slide Bar Assembly

When the rappel is not in use, the D205-523-043 Slide Bar Assembly may be removed as follows (see ICA-D205-523 Figure 25-3 for reference).

2.2.1 Remove the D205-523-043 Slide Bar Assembly by disconnecting the 33116 Stud Fittings at STA 105.1 and STA 129.2.

2.2.2 If present, disconnect safety rope (ref) and carabiners (ref) from the D2224 Rappel Anchor. Keep the D2224 Rappel Anchor installed in the aircraft for future missions.

2.2.3 Update the Aircraft Log Book to indicate the removal of the D205-523-043 Slide Bar Assembly and adjust Weight and Balance Record for the aircraft by referencing the Weight and Balance data provided in Section 3.0 of this document.

#### 2.3 Reinstallation of the D205-523-043 Slide Bar Assembly

If the D205-523-043 Slide Bar Assembly has been temporarily removed in accordance with this DSI, reinstall as follows (see ICA-D205-523 Figure 25-3 for reference):

2.3.1 Connect the D205-523-043 Slide Bar Assembly to the existing studs at STA 105.1 and STA 129.2 using the 33116 Stud Fittings.

2.3.2 As applicable, connect safety rope (ref) and carabiners (ref) as shown in Figure 25-2 of ICA-D205-523.

2.3.3 Update the Aircraft Log Book to indicate the reinstallation of the D205-523-043 Slide Bar Assembly and adjust Weight and Balance Record for the aircraft by referencing the Weight and Balance data provided in Section 3.0 of this document.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 23.02.10  
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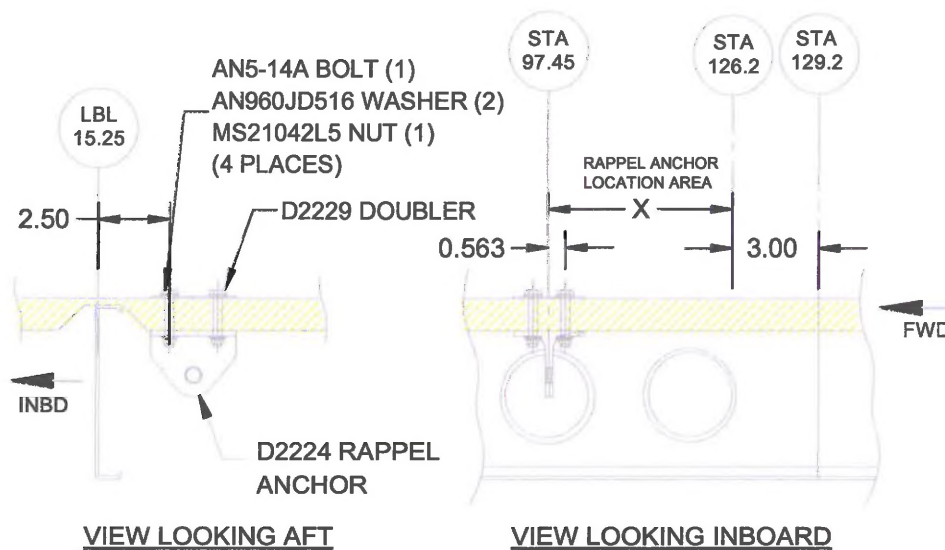
APPROVED

B	UPDATE INSTALLATION LOCATION OF D2224, REASON REF ECR 454.	SAD	23.02.10
A	NEW ISSUE; REF ECR 61 (2020)	RF	20.12.01
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	<b>DART AEROSPACE</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	KPT	DRAWING NO.	REV. B
MFG. APPR.	SAD	DSI 9851	SHEET 1 OF 2
APPROVED	SAD	TITLE	SCALE
DE APPR.	DS	<b>RAPPEL ANCHOR RELOCATION</b> NTS	
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### 3.0 WEIGHT AND BALANCE

The Weight and Balance of Section 4 of D205-523 Rev. F and Section 25.4 of ICA-D205-523 Rev. 1 is replaced with the following table. Relocating the D2224 Rappel Anchor has negligible effect on Weight and Balance.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
<b>D205-523-013</b> <b>Heli-Rappel™ Installation</b>	4.1 lb 1.86 kg	+/- 36.7 in +/- 0.93 m	+/- 150 in-lb +/- 1.73 m-kg	117.0 in 2.97 m	480 in-lb 5.52 m-kg
<b>D205-523-043</b> <b>Slide Bar Assembly</b>	3.5 lb 1.59 kg	+/- 39.5 in +/- 1.00 m	+/- 138 in-lb +/- 1.59 m-kg	116.8 in 2.97 m	409 in-lb 4.72 m-kg



**FIGURE 1: Relocation of the D2224 Rappel Anchor**  
LH Installation Shown, RH Installation Opposite

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DESIGN	RF	<b>DART AEROSPACE</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	KPT	DRAWING NO.	REV. B
MFG. APPR.	SAD	<b>DSI 9851</b>	SHEET 2 OF 2
APPROVED	SAD	TITLE	SCALE
DE APPR.	DS	<b>RAPPEL ANCHOR RELOCATION</b>	NTS
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